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**Patent/Publication No.** 362333

**Title** Apparatus for demodulating and decoding video signals encoded in different formats

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**Application No.** 085100973

**Certification\_Number** 104176

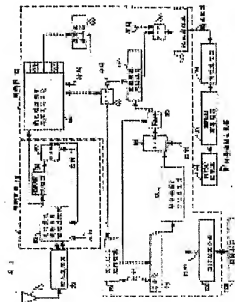
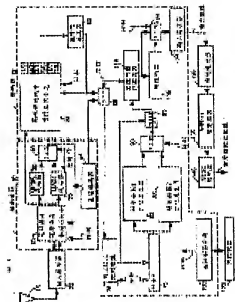
**IPC** H04L-027/28;H04N-005/455

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**Abstract** An adaptive receiver includes an adaptive demodulator and an adaptive decoder for providing demodulated and decoded output data from a video signal encoded for satellite, terrestrial or cable transmission. The demodulator recovers demodulated output data by using an adaptive timing recovery network and an adaptive carrier recovery network that incorporates a selectable slicer network. In addition, an Automatic Gain Control network within the demodulator provides a gain control output as a function of a difference between signals produced both prior to and following the slicer. The demodulator may also incorporate a signal quality detector that uses carrier recovery network signals to provide an estimate of the error in the demodulated output data. The decoder produces a Viterbi



decoded output from the demodulated output data by using a selectable code rate Viterbi decoder.

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Patent Right Change

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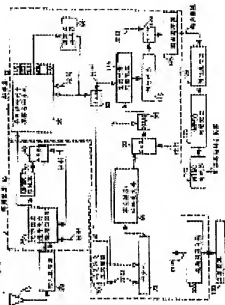


Fig. 1

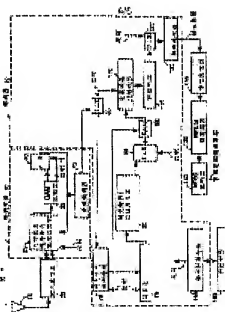
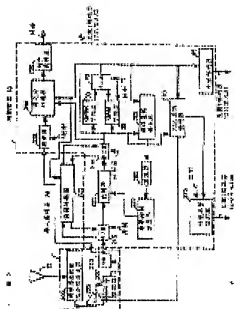


Fig. 2



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